
FINAL ENVIRONMENTAL ASSESSMENT

*LOWER TULE RIVER IRRIGATION DISTRICT
TULE RIVER INTERTIE PROJECT*

Appendix B
Preliminary Project Designs

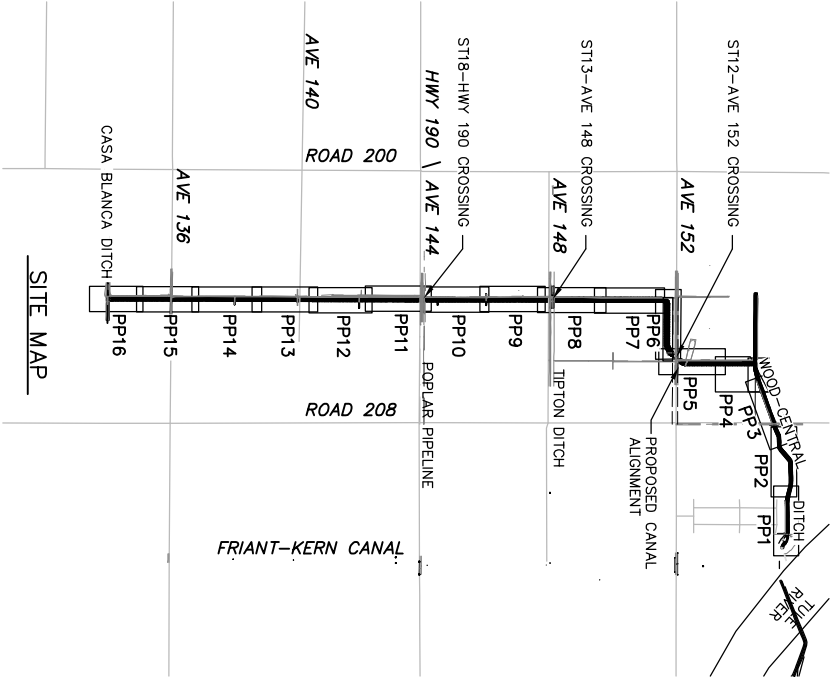
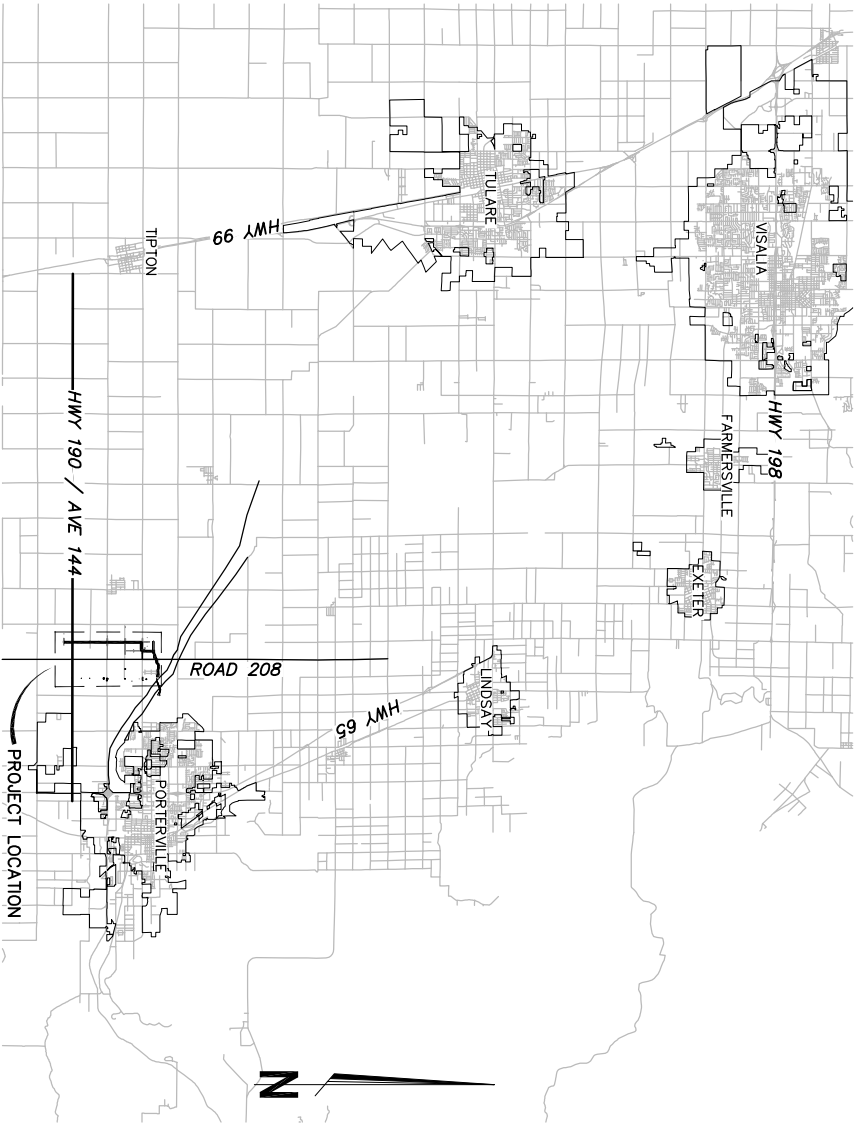
January 2010



Know what's below.
Call before you dig.

LOWER TULE RIVER IRRIGATION DISTRICT TULE RIVER INTERTIE PROJECT

TULARE COUNTY, CA



BASIS OF BEARINGS.
THE LINE BETWEEN NATIONAL GEODETIC CONTROL POINT DESIGNATED PID-G12144 AND THE NORTH QUARTER CORNER OF SECTION 31, TOWNSHIP 21 SOUTH, RANGE 27 EAST, MOUNT DIABLO BASE, AND MERIDIAN, ESTABLISHED BY G.P.S., TAKEN TO BE NORTH 39°20'22" WEST.

BENCHMARK
NATIONAL GEODETIC CONTROL POINT DESIGNATED PID-G12144 LOCATED AT THE PORTERVILLE MUNICIPAL AIRPORT, BRASS DISK SET IN CONCRETE STAMPED "PORTPORT 1987", CALCULATED FROM 1997 DATA AS PUBLISHED BY THE NOS

COORDINATES ARE SHOWN AS GROUND COORDINATES
DATUM — NAD83
ELEVATION = 437.68'

TOPOGRAPHY NOTE
TOPOGRAPHY SHOWN IS DATA PROVIDED BY PROVOST & PRITCHARD ENGINEERING GROUP, INC.
(ON DATE: 02-26-2007)

STANDARD BOUNDARY NOTE

THE BOUNDARY/EASEMENT INFORMATION SHOWN ON THESE PLANS IS BASED UPON RECORD INFORMATION TIED TO PHYSICAL MONUMENTS, AND WAS PREPARED UNDER THE DIRECTION OF CRAIG E. BAUM, PLS 7680.

CONSULTING ENGINEERS AND LAND SURVEYORS OF CALIFORNIA

Construction Contractor agrees that in accordance with generally accepted construction practices, Construction Contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property, that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction Contractor further agrees to defend, indemnify, and hold design professional harmless from any and all liability, real and alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of design professional.

SPECIAL NOTE

Where underground and surface structures are shown on the plans, the locations, depth and dimensions of structures are believed to be reasonably correct, but are not guaranteed, such structures are shown for the information of the Contractor, but information so given is not to be construed as a representation that such structures will, in all cases, be found where shown, or that they represent all of the structures which may be encountered.

GENERAL NOTES

1. LOWER TULE RIVER IRRIGATION DISTRICT (LTRID) (559-686-4716) SHALL BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK ON OR NEAR EXISTING DISTRICT FACILITIES.
2. USED MATERIAL, REJECTS, MISFITS, OR SECONDS, ETC. ARE NOT ACCEPTABLE FOR USE ON LTRID FACILITIES.
3. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THESE PLANS, PROJECT SPECIFICATIONS AND LTRID SPECIFICATIONS.
4. CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING FACILITIES PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600. CONTRACTOR SHALL MAKE ENGINEER AWARE OF ANY DISCREPANCIES.
5. ALL CAST-IN-PLACE CONCRETE STRUCTURES SHALL BE FORMED INSIDE AND OUT AND CONCRETE VIBRATED SUFFICIENTLY TO PROVIDE FOR SMOOTH SURFACED WALLS/FLOORS WITHOUT VOIDS AND HONEYCOMBS.
6. LTRID SHALL INSPECT ALL WORK PHASES ON IRRIGATION FACILITIES FOR CONFORMANCE TO LTRID SPECIFICATIONS. REINFORCING SHALL NOT BE ENCASED IN CONCRETE WITHOUT PRIOR LTRID INSPECTIONS. LIKEWISE, CONCRETE SHALL NOT BE COVERED WITH EARTH PRIOR TO LTRID INSPECTION.
7. CONCRETE DESIGN MIX SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. ALL CONCRETE SHALL HAVE A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE SPECIFIED.
8. ALL STEEL PIPE AND FITTINGS SHALL BE FURNISHED WITH A SHOP APPLIED HIGH SOLIDS EPOXY COATING ON THE INTERIOR AND EXTERIOR, UNLESS OTHERWISE INDICATED. ALL OTHER EXPOSED STEEL SHALL BE PAINTED WITH A PRE-TREATMENT PRIMER, AN UNDERCOAT AND A FINAL COAT OF PAINT IN ACCORDANCE WITH LTRID SPECIFICATIONS.
9. ALL NUTS, BOLTS, AND WASHERS USED TO SECURE UNDERGROUND FITTINGS SHALL BE STAINLESS STEEL. AFTER INSTALLATION, ALL STEEL HARDWARE SHALL BE COATED WITH A RUST PREVENTATIVE, WRAPPED WITH 4 MIL POLYETHYLENE SHEETING, AND SECURE WITH PVC TAPE.
10. THRUST RESTRAINTS TO BE PROVIDED AT ALL PIPELINE BENDS, WHETHER OR NOT SHOWN ON THE PLANS.

GENERAL NOTES CONT.

11. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY LAWS OF THE STATE OF CALIFORNIA AND CAL/OSHA STANDARDS.
12. TRENCH BACKFILL AND RESERVOIR EMBANKMENTS SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE GEOTECHNICAL REPORT CONTAINED IN THE SPECIFICATIONS.
13. CONCRETE VAULTS AND BOXES MAY BE PURCHASED FROM A PRECAST MANUFACTURER OR CONTRACTOR MAY CONSTRUCT THE STRUCTURES IF STRUCTURAL CALCULATIONS AND DESIGN IS APPROVED BY LTRID AND THE ENGINEER.
16. ALL EXCESS MATERIAL AND/OR DEBRIS SHALL BE REMOVED UPON COMPLETION OF INSTALLATION.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE DUST CONTROL AT ALL TIMES.
18. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OF ALL DAMAGE TO EXISTING FACILITIES WHICH OCCUR DURING CONSTRUCTION OF IMPROVEMENTS AFFECTING EXISTING FACILITIES.
19. CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
20. CAL-OSHA SAFETY REQUIREMENTS SHALL BE IN EFFECT DURING ALL CONSTRUCTION. SPECIAL SAFETY PRECAUTIONS SHALL BE TAKEN WHEN WORKING IN THE VICINITY OF GAS, OIL, OR ELECTRICAL LINES.
21. CONTRACTOR SHALL OBTAIN ALL NECESSARY COUNTY OF TULARE ENCROACHMENT PERMITS PRIOR TO COMMENCEMENT OF WORK.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL.

Sheet List Table	
Sheet Numb	Sheet Title
1	COVER SHEET
2	LEGEND & ABBREVIATIONS
PLAN & PROFILE	
PP1	STA 10+00 – 22+00
PP2	STA 22+00 – 34+00
PP3	STA 34+00 – 46+00
PP4	STA 46+00 – 58+00
PP5a	STA 58+00 – 70+00
PP5b	STA 58+00 – 70+00
PP6	STA 70+00 – 82+00
PP7	STA 82+00 – 94+00
PP8	STA 94+00 – 106+00
PP9	STA 106+00 – 118+00
PP10	STA 118+00 – 130+00
PP11	STA 130+00 – 142+00
PP12	STA 142+00 – 154+00
PP13	STA 154+00 – 166+00
PP14	STA 166+00 – 178+00
PP15	STA 178+00 – 190+00
PP16	STA 190+00 – END
CROSS SECTIONS	
CS1	STA 13+50 – 30+00
CS2	STA 33+00 – 42+00
CS3	STA 45+00 – 63+00
CS4	STA 66+00 – 84+00
CS5	STA 87+00 – 105+50
CS6	STA 108+00 – 129+00
CS7	STA 130+00 – 150+00
CS8	STA 153+00 – 165+00
CS9	STA 171+00 – 189+00
CS10	STA 192+00 – 196+00
STRUCTURES	
ST1	GRADE CONTROL WEIR
ST2	DUNNING CROSSING 1
ST3	DUNNING CROSSING 2
ST4	REPLUGLE FLUME 1
ST5	ROAD 208 CROSSING 1
ST6	ROAD 208 CROSSING 2
ST7	WEIR STRUCTURE MODIFICATIONS 1
ST8	WEIR STRUCTURE MODIFICATIONS 2
ST9	WOODS CENTRAL TURNOUT 1
ST10	WOODS CENTRAL TURNOUT 2
ST11	RHODES-FINE TURNOUT 1
ST12	AVE 152 CROSSING 1
ST13	AVE 148 CROSSING 1
ST14	AVE 148 CROSSING 2
ST15	AVE 148 CROSSING 3
ST16	AVE 148 CROSSING 4
ST17	AVE 146 ALIGNMENT
ST18	STATE ROUTE 190 CROSSING 1
ST19	STATE ROUTE 190 CROSSING 2
ST20a	TRAFFIC CONTROL PLAN 1
ST20b	TRAFFIC CONTROL PLAN 2
ST20c	TRAFFIC CONTROL PLAN 3
ST21	AVE 140 CROSSING
ST22	AVE 136 CROSSING
ST23	CASA BLANCA NORTH CONNECTION 1
ST24	CASA BLANCA NORTH CONNECTION 2
ST25	CASA BLANCA NORTH CONNECTION 3
ST26	CASA BLANCA EAST CONNECTION 1
DETAILS	
DT1	TYPICAL INLET-OUTLET STRUCTURE 1
DT2	TYPICAL INLET-OUTLET STRUCTURE 2
DT3	STANDARD DETAILS
DT4	STANDARD DETAILS

APPROVALS

MIKE BATTLES	DATE
DAN VINK	DATE

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TULE RIVER INTERTIE PROJECT
LOWER TULE RIVER IRRIGATION DISTRICT
TULARE COUNTY, CA

COVER SHEET

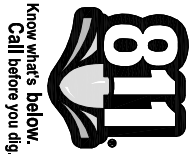
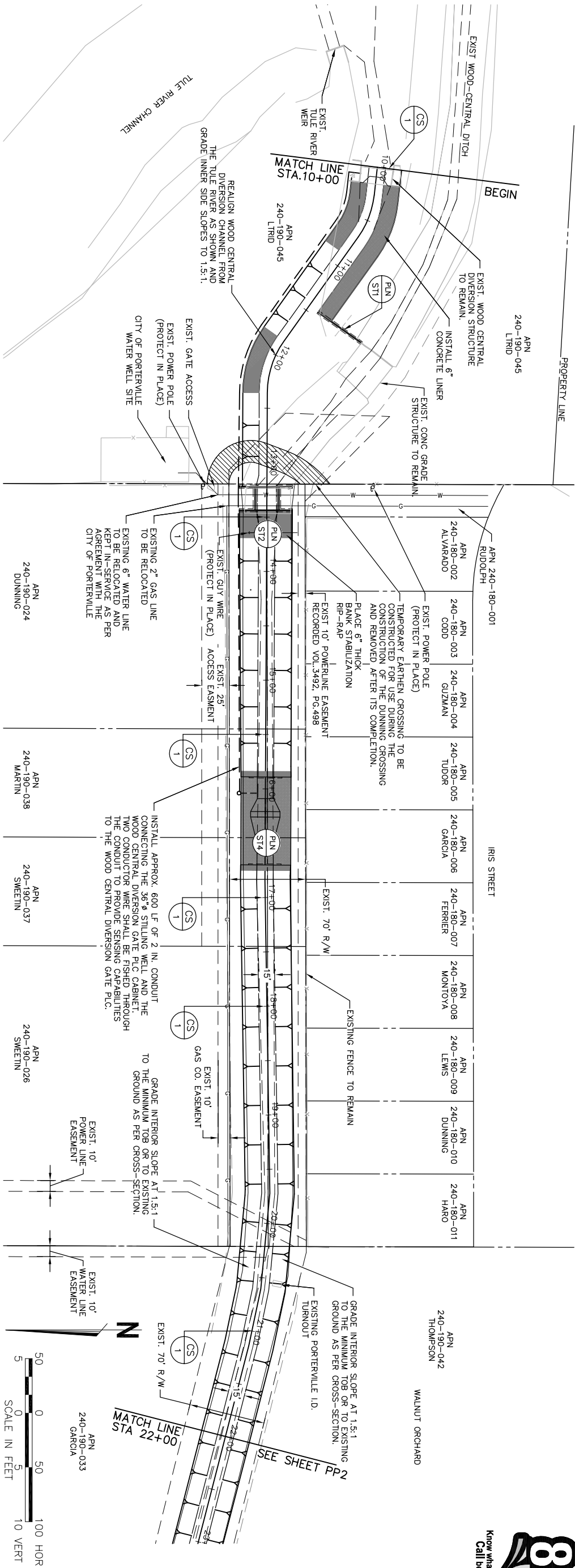


DESIGN ENGINEER:
DENNIS MILLS
LICENSE NO.:
CE 67,478

DRAFTED BY: CHECKED BY:
JAB DRM

SCALE:
DATE: 9/22/09
JOB NO: 147708V1

DWG. NO:
SHEET
1 OF 63



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TULE RIVER INTERTIE PROJECT
LOWER TULE RIVER IRRIGATION DISTRICT
TULARE COUNTY, CA

STA 10+00 – 22+00



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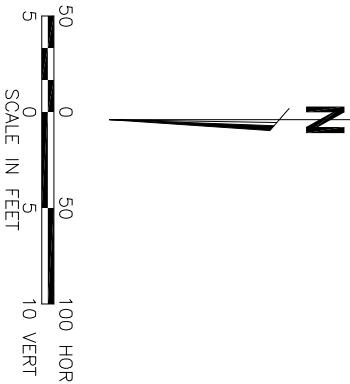
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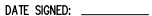
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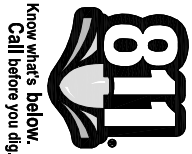
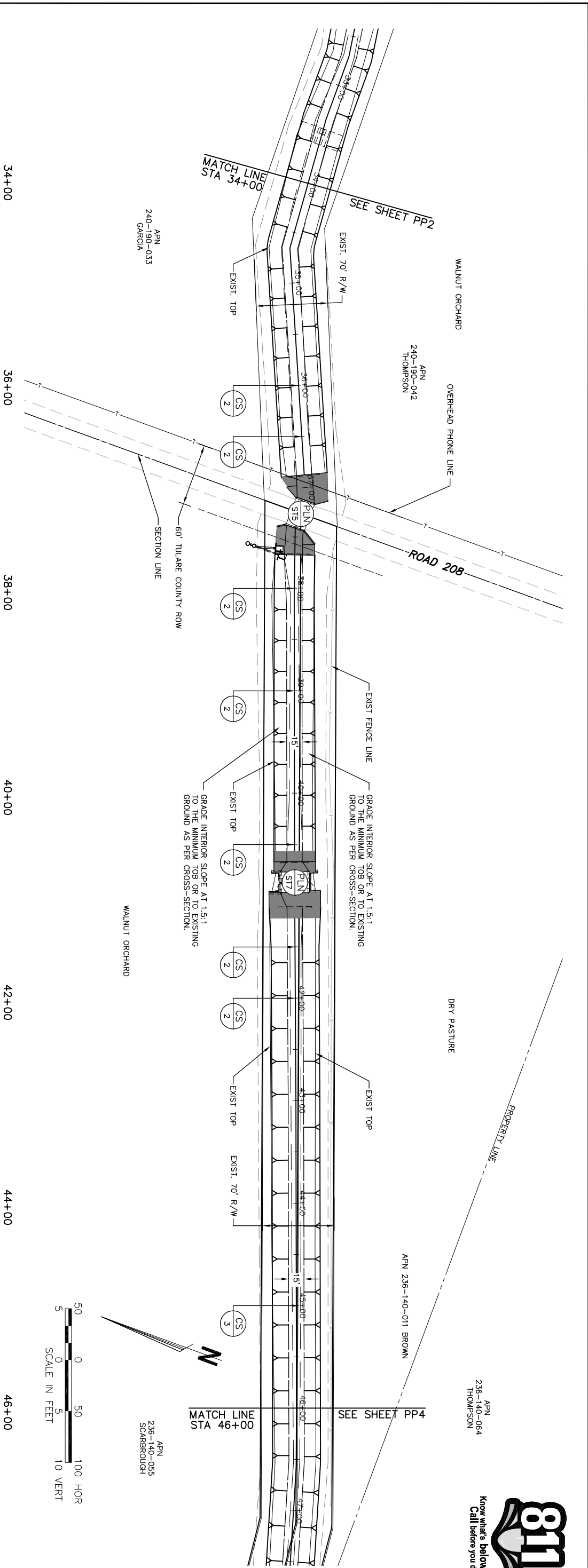


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	DESIGN ENGINEER: DENNIS MILLS	LICENSE NO: CE 67,478	
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LOWER TULE RIVER IRRIGATION DISTRICT
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STA 34+00 - 46+00

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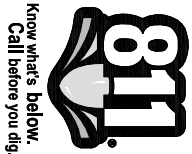
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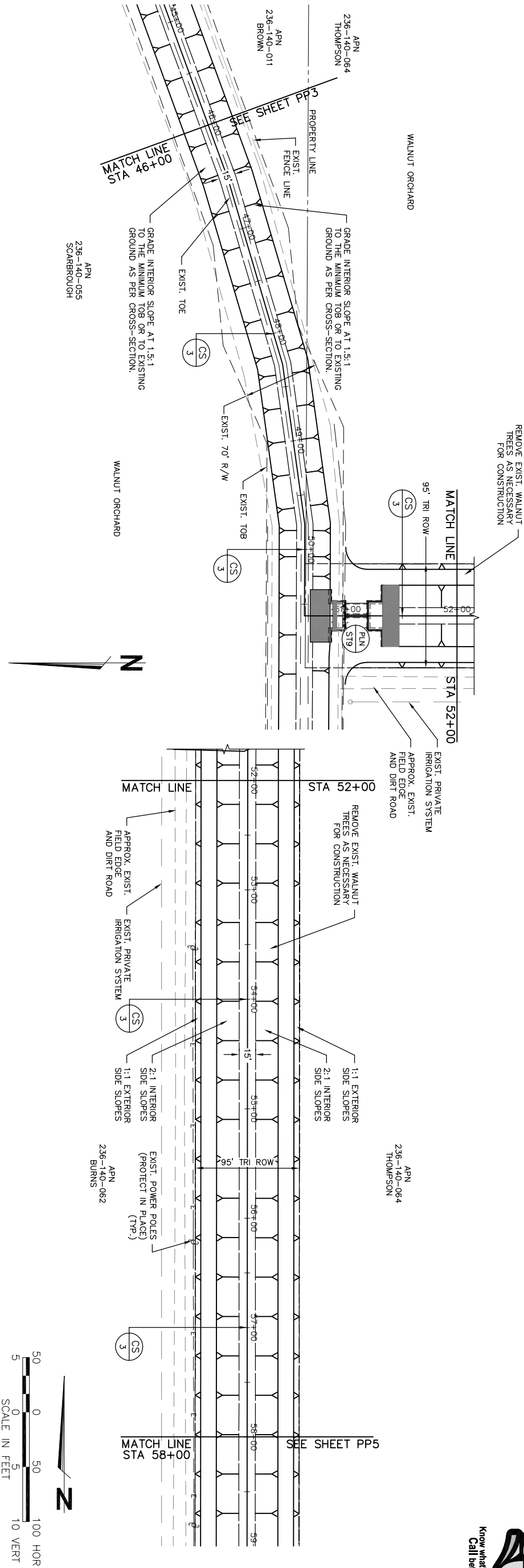
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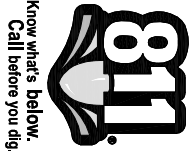
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PP4 OF 63



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390	NAVD88								390
385									385
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370									370
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MATCH LINE STA 46+00									



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TULARE COUNTY, CA

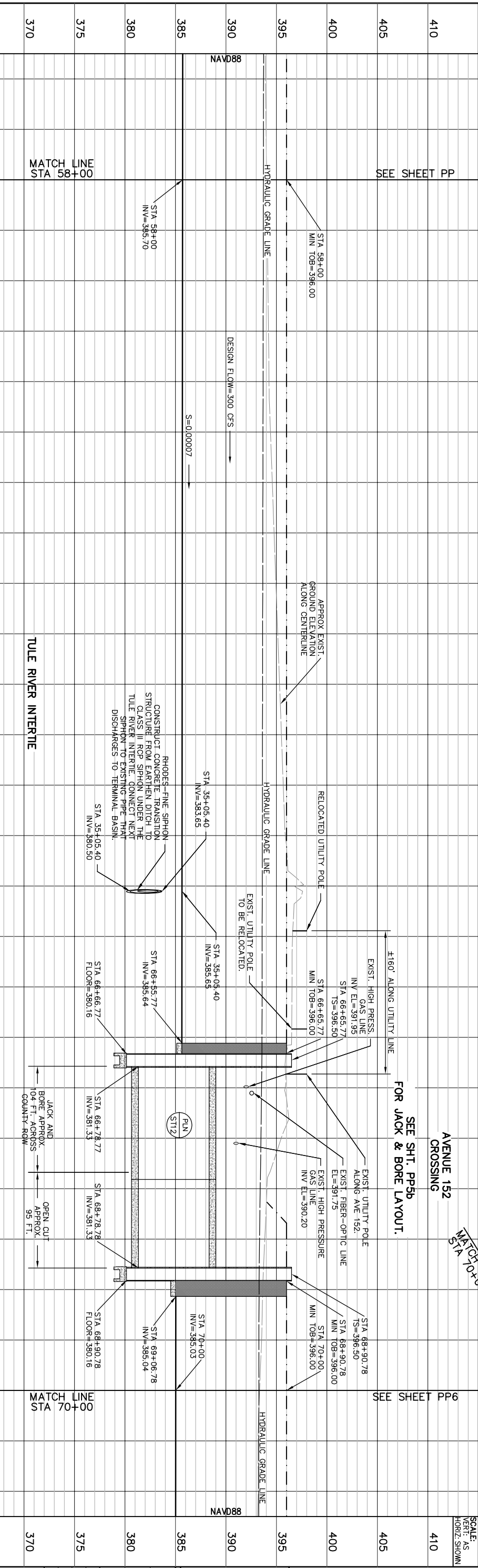
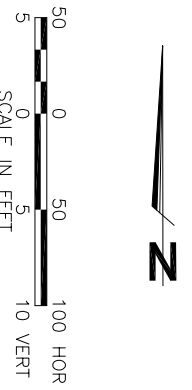
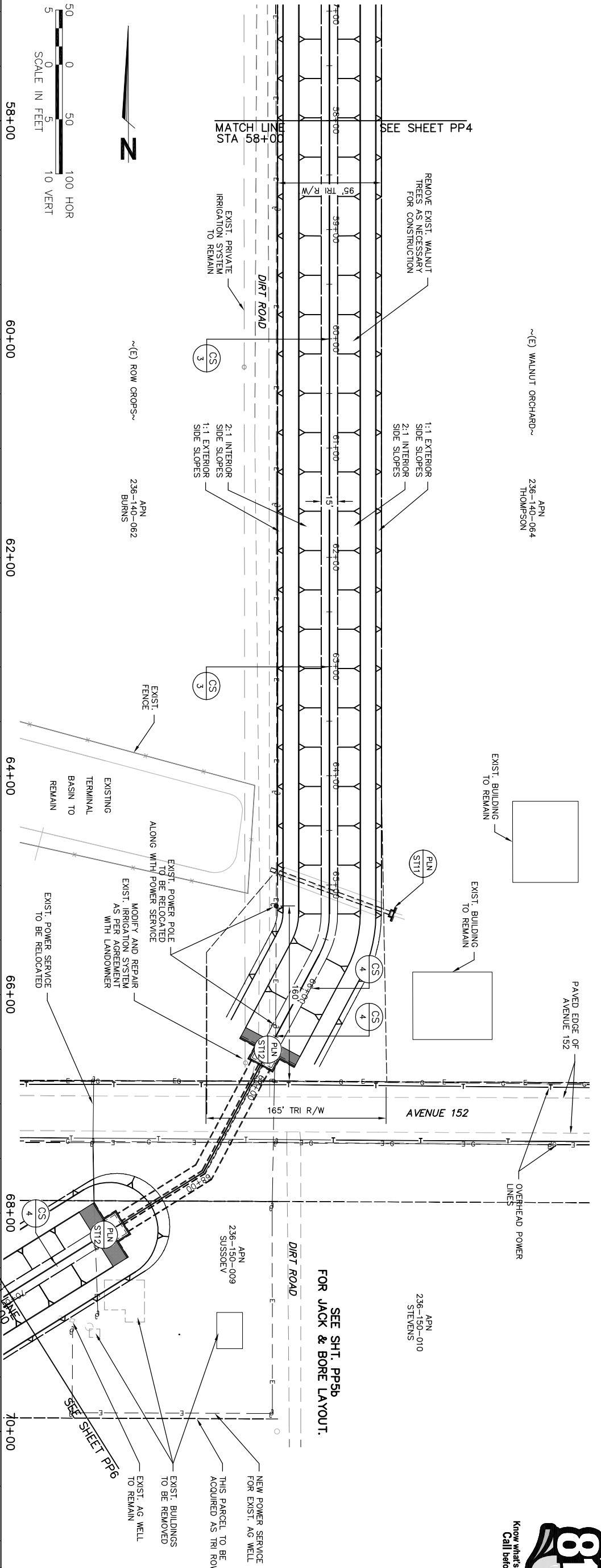
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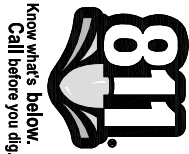


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PP5a OF 63





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TULARE COUNTY, CA

JACK & BORE LAYOUT
STA 58+00 – 70+00

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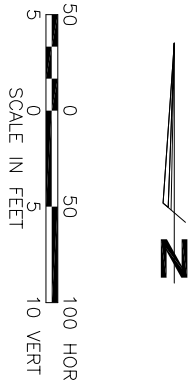
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JOB NO: 147708V1
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PP5b OF 63



58+00

60+00

62+00

64+00

66+00

68+00

70+00

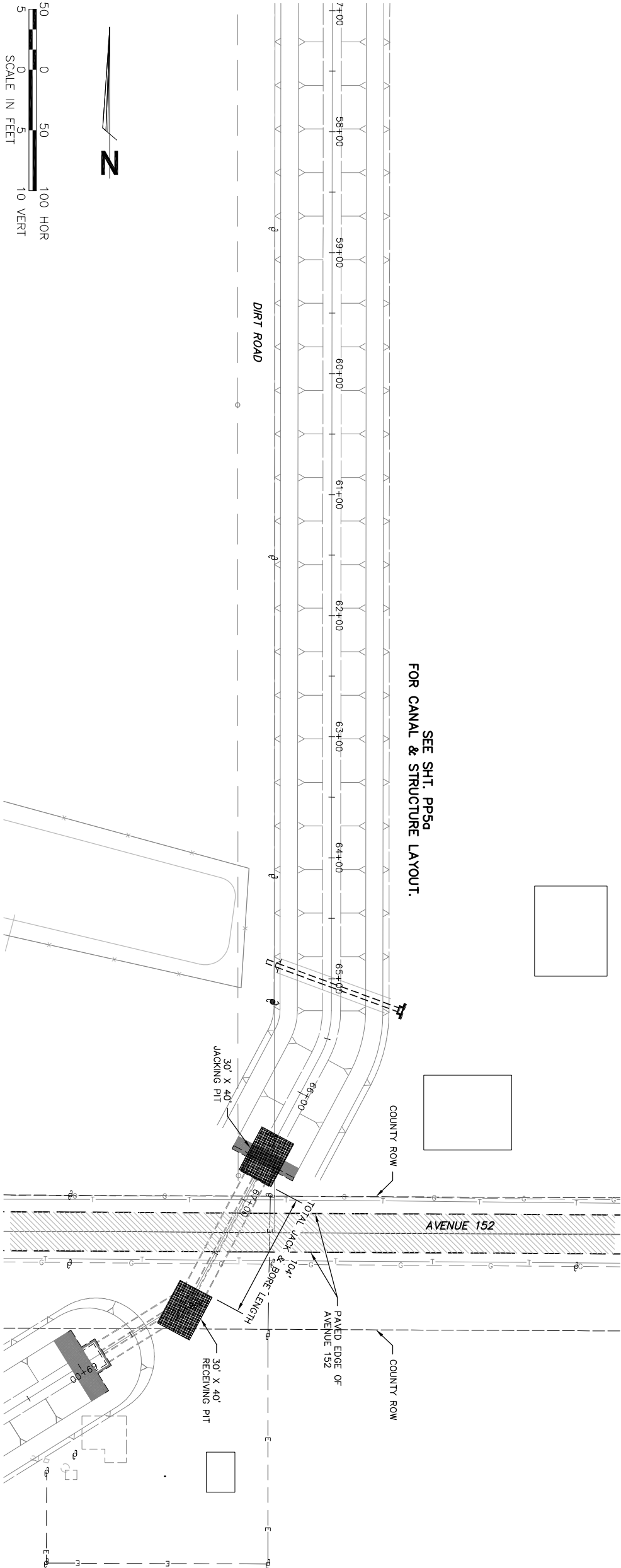
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SEE SHEET 4

SEE SHEET 6

SEE SHT. PP5a
FOR CANAL & STRUCTURE LAYOUT.

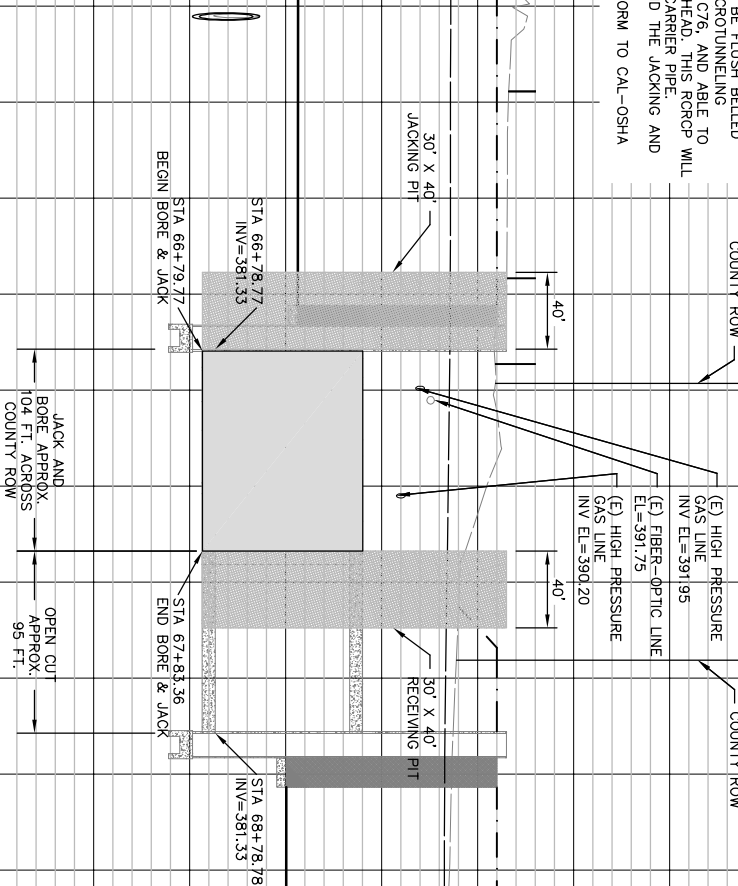
SEE SHT. PP5a
FOR CANAL & STRUCTURE LAYOUT.



JACK AND BORE NOTES

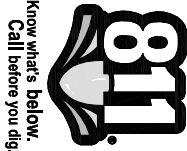
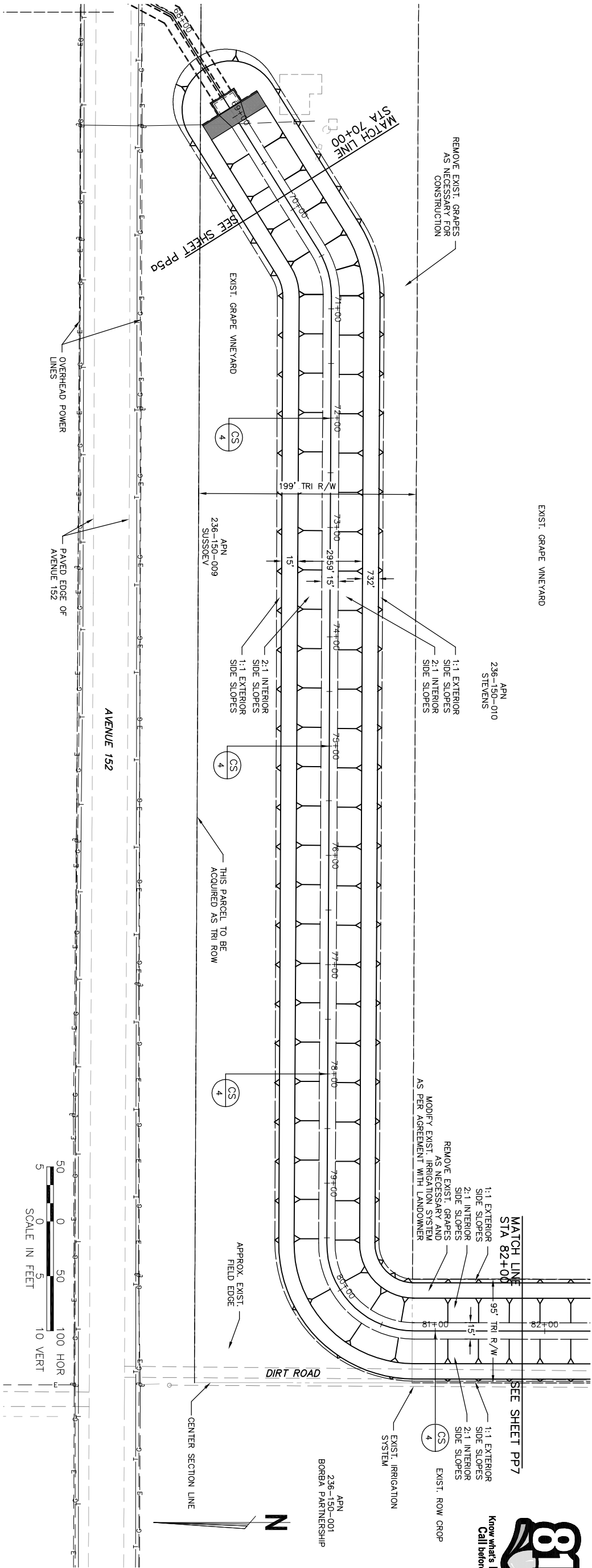
1. ALL JACK AND BORED PIPE SHALL BE FLUSH BELLED CLASS III RORP INTENDED FOR MICROTUNNELING (JACKING), COMPLIANT WITH ASTM C76, AND ABLE TO OPERATE LEAK FREE WITH 25 FT. HEAD. THIS RORP WILL BE JACK AND BORED WITHOUT A CARRIER PIPE.
2. FENCING WILL BE REQUIRED AROUND THE JACKING AND RECEIVING PITS.
3. SHORING BE REQUIRED SHALL CONFORM TO CAL-OSHA MINIMUM REQUIREMENTS.

AVENUE 152
CROSSING



MATCH LINE
STA 58+00

MATCH LINE
STA 70+00



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TULE RIVER INTERTIE PROJECT
LOWER TULE RIVER IRRIGATION DISTRICT
TULARE COUNTY, CA

STA 70+00 – 82+00

EST. 1968

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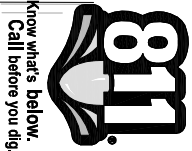
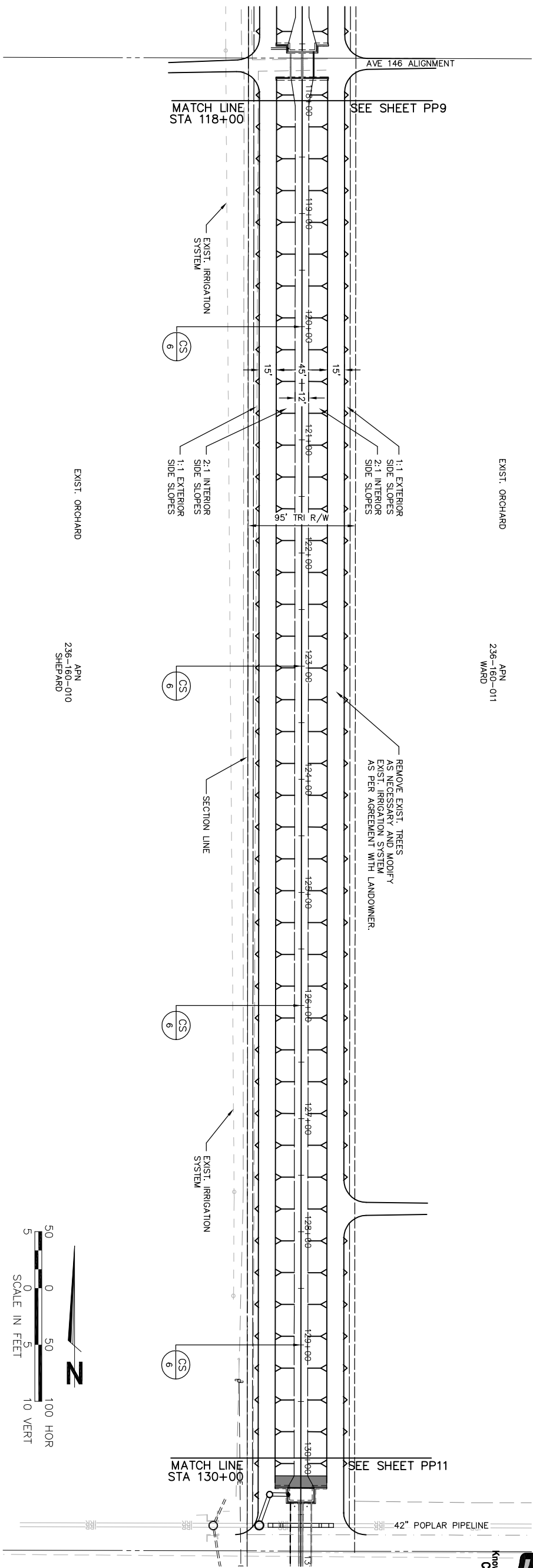
130 NORTH GARDEN ST.
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www.ppeng.com

DESIGN ENGINEER:
DENNIS MILLS
LICENSE NO.:
CE 67,478

DRAFTED BY: JAB
CHECKED BY: DRM

SCALE: AS SHOWN
DATE: 9/22/09
JOB NO: 147708V1
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SHEET
PP6 OF 63



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TULE RIVER INTERTIE PROJECT
LOWER TULE RIVER IRRIGATION DISTRICT
TULARE COUNTY, CA

STA 118+00 – 130+00

EST. 1968

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www.ppeng.com

DESIGN ENGINEER:
DENNIS MILLS
LICENSE NO.:
CE 67,478

DRAFTED BY: JAB
CHECKED BY: DRM

SCALE: AS SHOWN
DATE: 9/22/09
JOB NO: 147708V1
DWG. NO:

PP10 OF 63



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TULE RIVER INTERTIE PROJECT
LOWER TULE RIVER IRRIGATION DISTRICT
TULARE COUNTY, CA

STA 130+00 – 142+00

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DENNIS MILLS
LICENSE NO.:
CE 67,478

DRAFTED BY: CHECKED BY:
JAB DRM

SCALE: AS SHOWN
DATE: 9/22/09
JOB NO: 147708V1
DWG. NO:

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TULE RIVER INTERTIE PROJECT
LOWER TULE RIVER IRRIGATION DISTRICT
TULARE COUNTY, CA

STA 142+00 – 154+00

EST. 1968

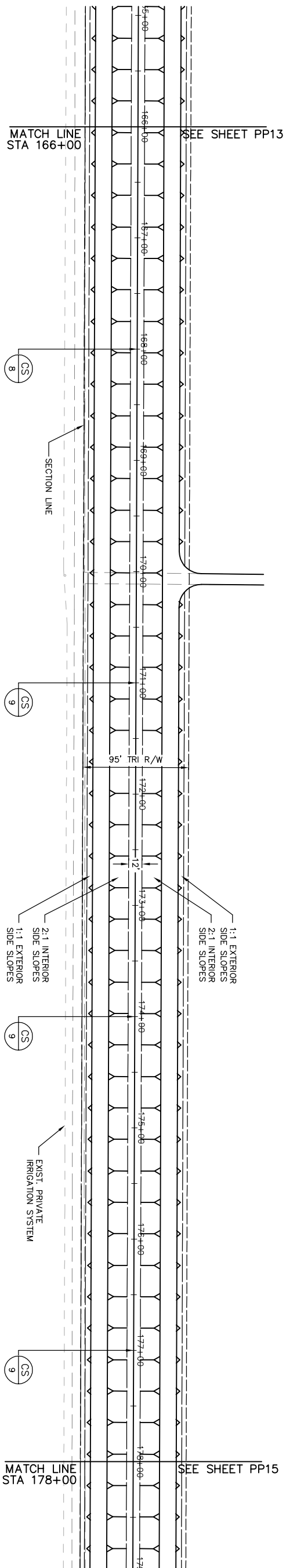
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DESIGN ENGINEER:
DENNIS MILLS
LICENSE NO.:
CE 67,478

DRAFTED BY: _____
JAB
CHECKED BY: _____
DRM

SCALE: AS SHOWN
DATE: 9/22/09
JOB NO: 147708V1
DWG. NO:



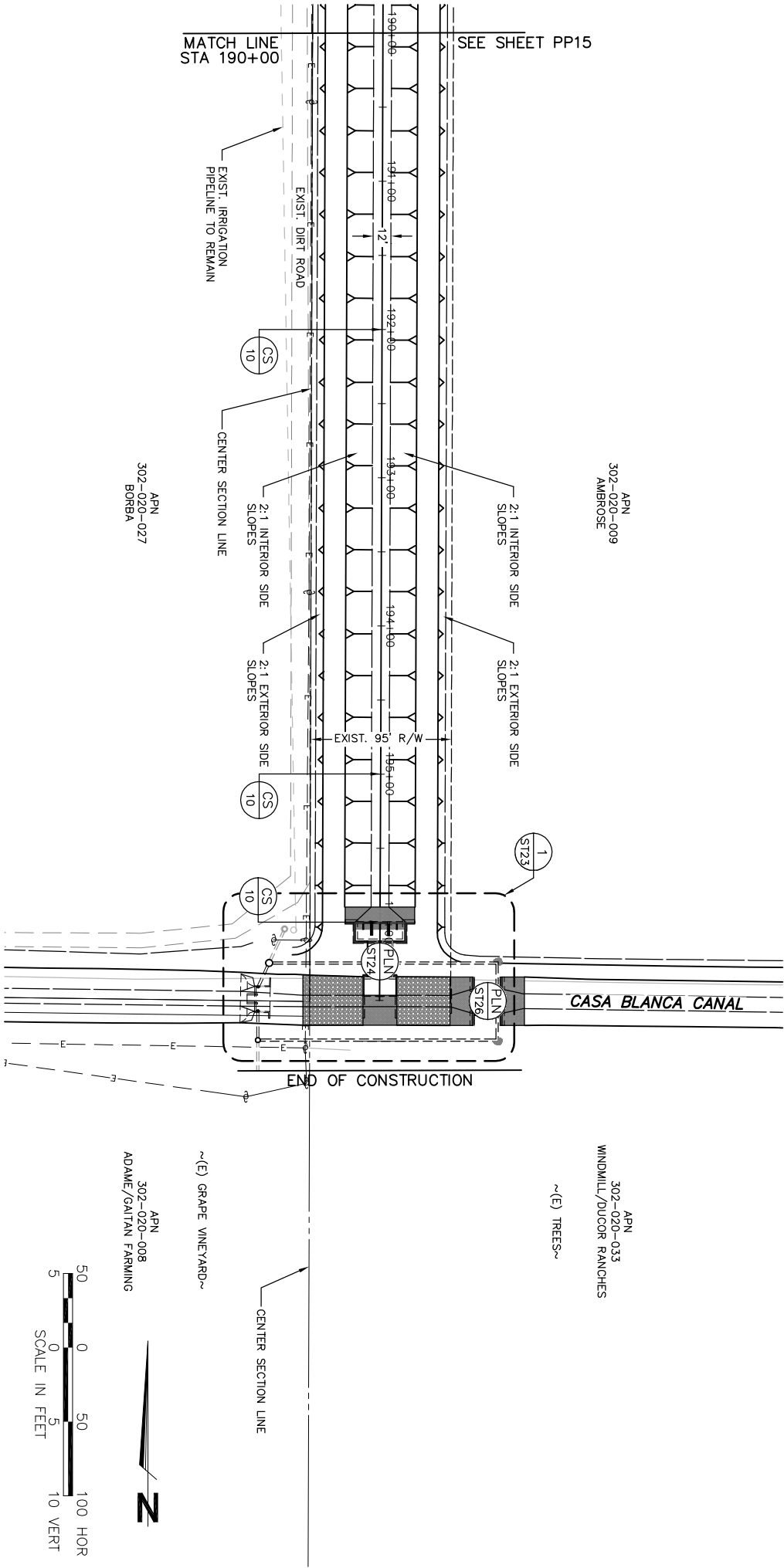
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AMEROSE

APN
302-020-033
WINDMILL/DUCOR RANCHES

~(E) TREES~

~(E) GRAPE VINEYARD~

APN
302-020-008
ADAME/GAITAN FARMING



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390	NAVD88			STA 195+99.58 MIN TOB=393.00			
385	STA 190+00 INV=384.17			STA 196+12.58 INV=383.83			
380				STA 195+89.58 INV=384.14			
375				STA 196+07.08 FLOOR=382.33			
370	MATCH LINE STA 190+00			STA 196+49.08 FLOOR=382.33			

CASA BLANCA CANAL
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END OF CONSTRUCTION

NAVD88

811

Know what's below.
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REGISTERED PROFESSIONAL ENGINEER

DENNIS R. MILLS

No. 67478

EXPIRES: 6/30/11

Civil

STATE OF CALIFORNIA

DATE SIGNED: _____

No.	REVISION	BY	DATE

EST. 1968

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TULE RIVER INTERTIE PROJECT

LOWER TULE RIVER IRRIGATION DISTRICT
TULARE COUNTY, CA

STA 190+00 – END

SCALE:
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DESIGN ENGINEER:
DENNIS R. MILLS

LICENSE NO:
CE 67,478

DRAFTED BY: CHECKED BY:

JAB DRM

SCALE: AS SHOWN

DATE: 9/22/09

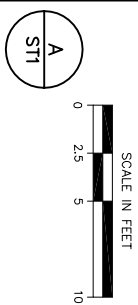
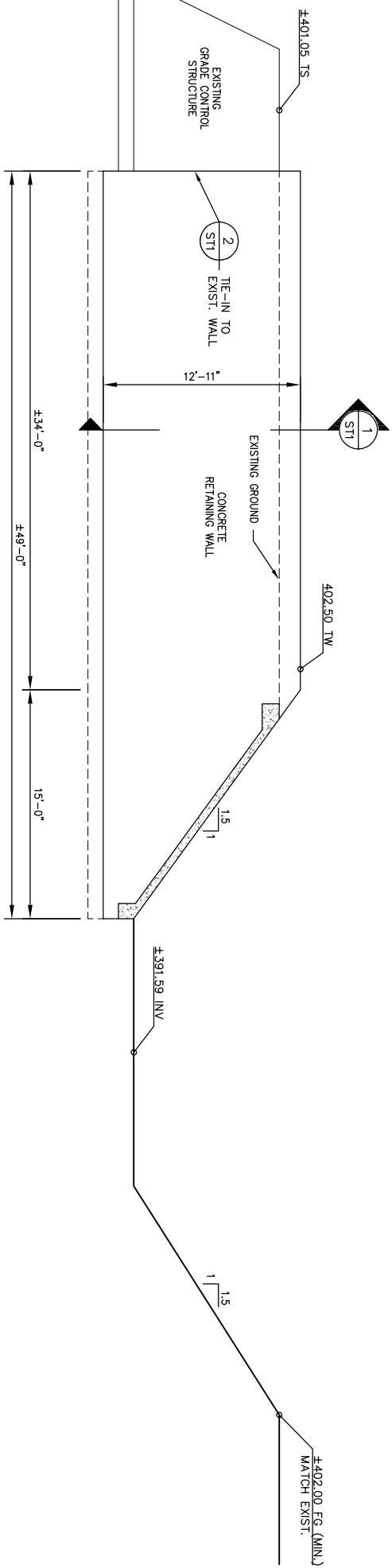
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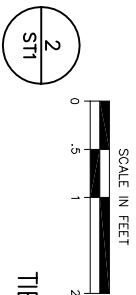
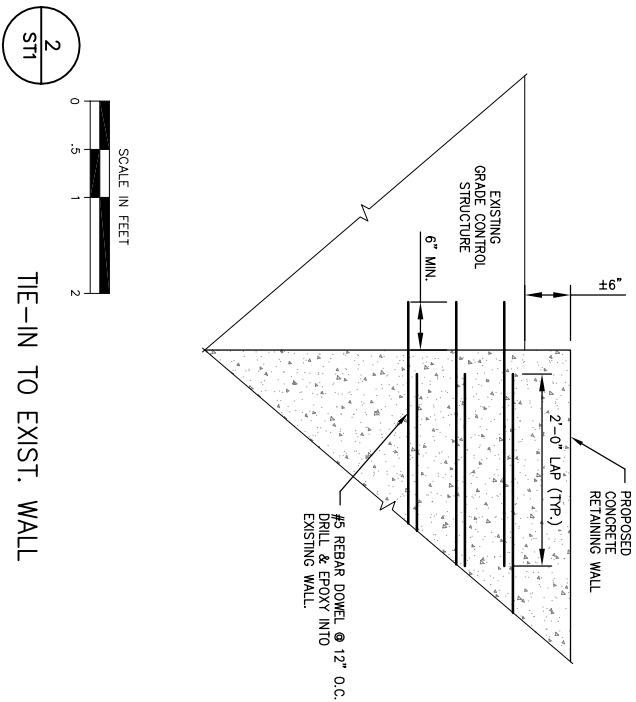
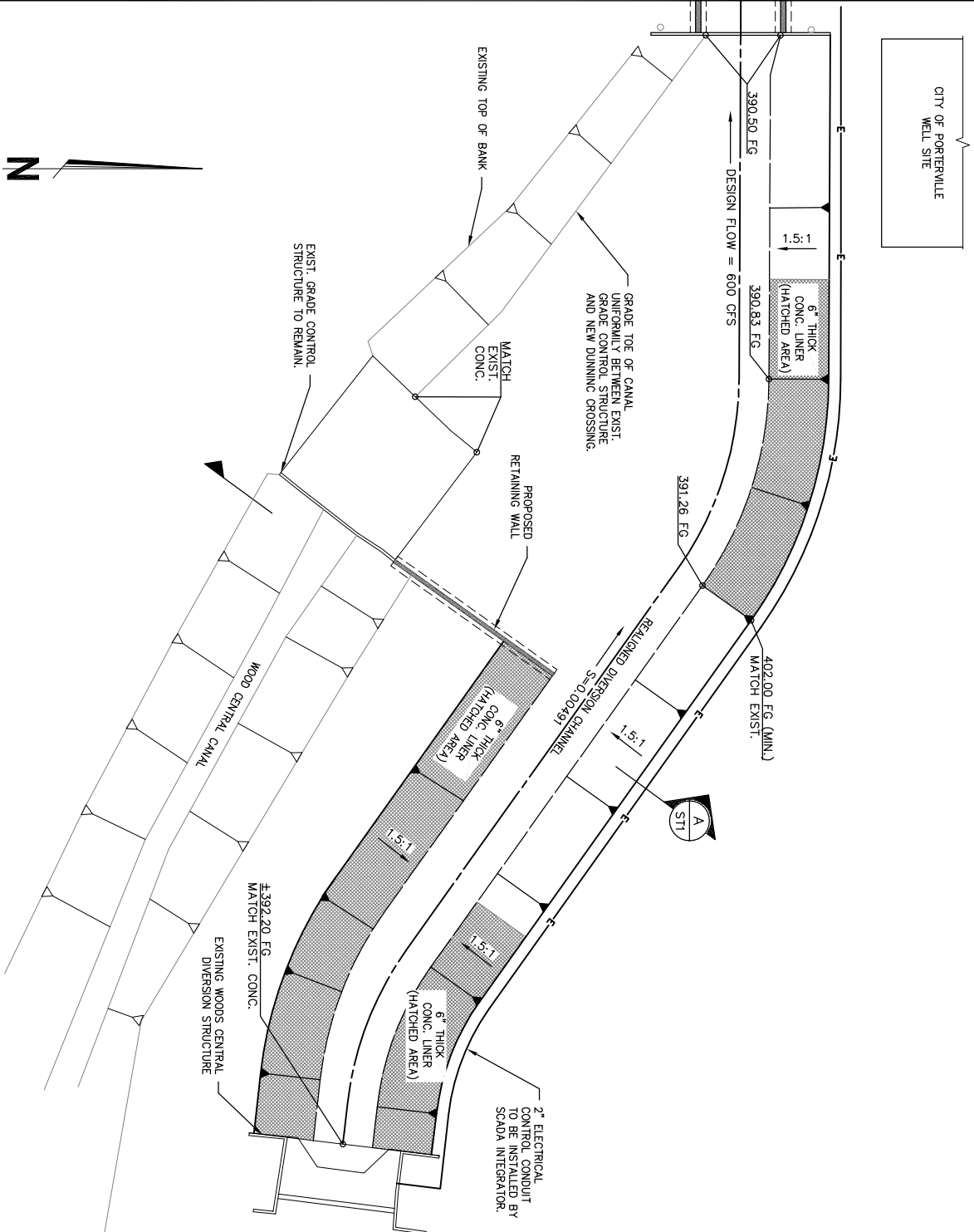
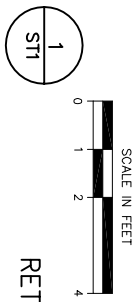
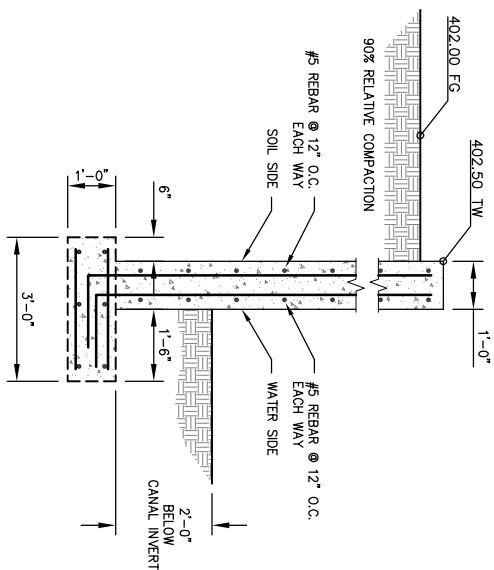
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PP16 OF 63

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SECTION A



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09/28/2009

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TULE RIVER INTERTIE PROJECT
LOWER TULE RIVER IRRIGATION DISTRICT
TULARE COUNTY, CA

GRADE CONTROL WEIR



DESIGN ENGINEER:

DENNIS MILLS

LICENSE NO:

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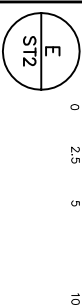
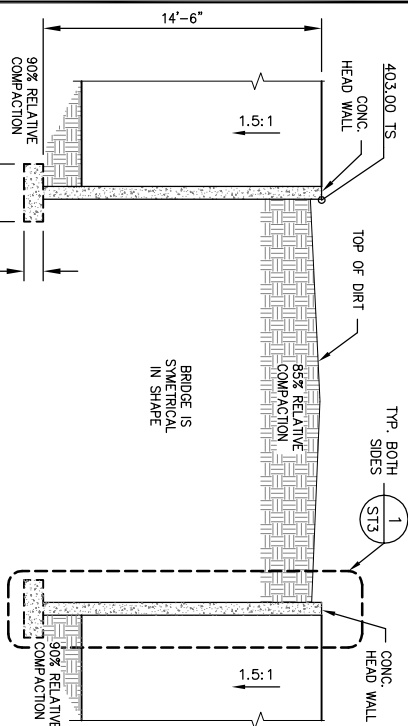
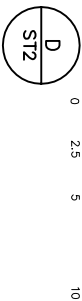
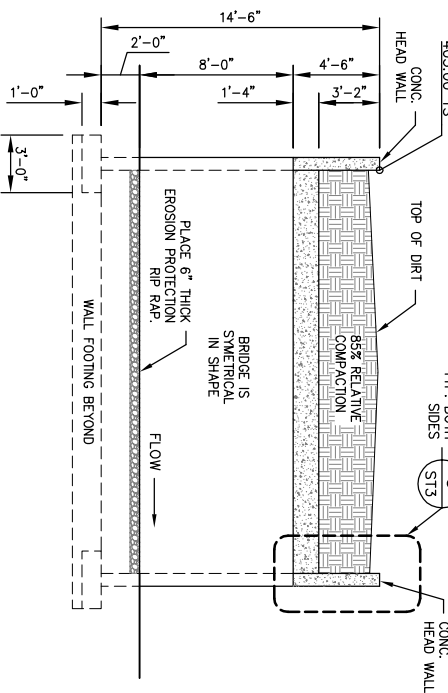
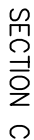
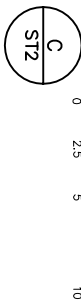
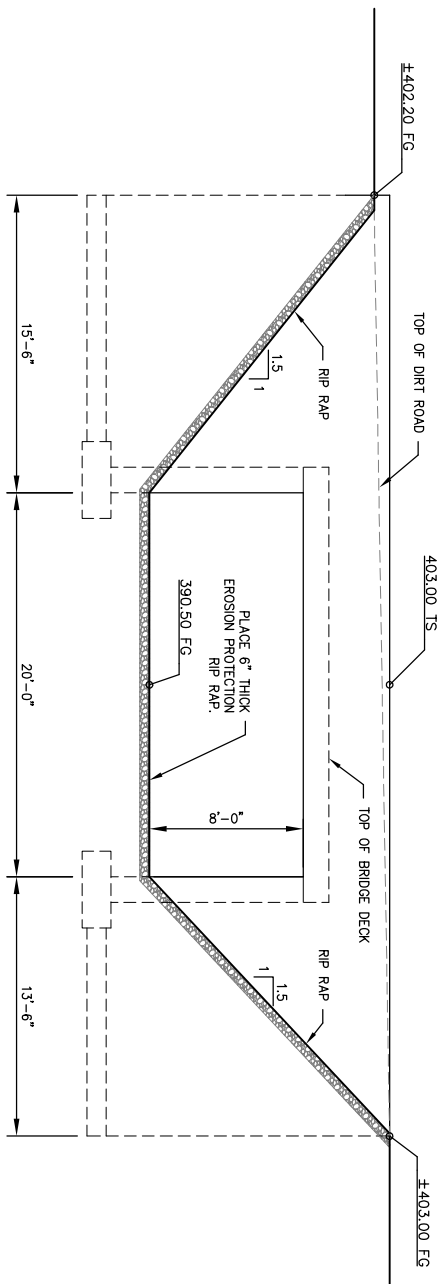
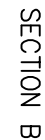
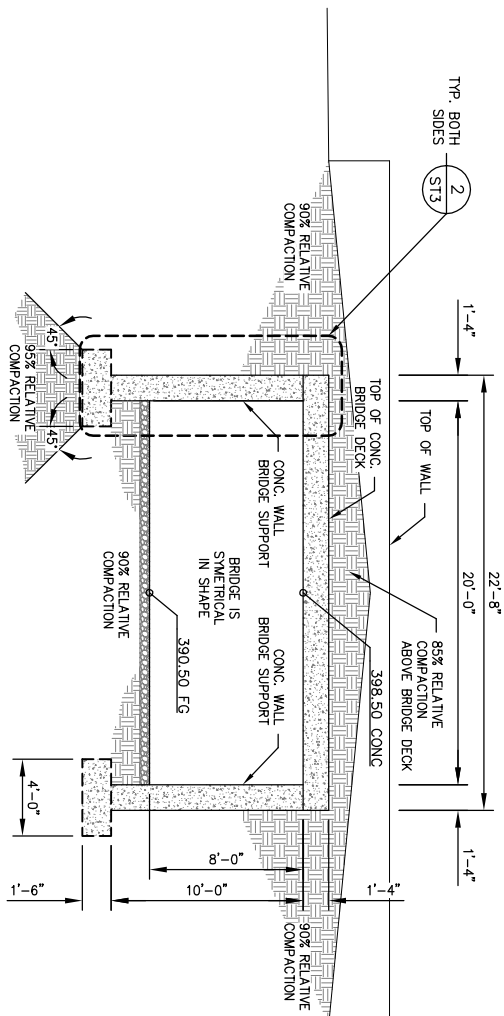
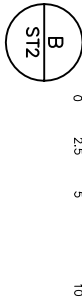
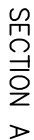
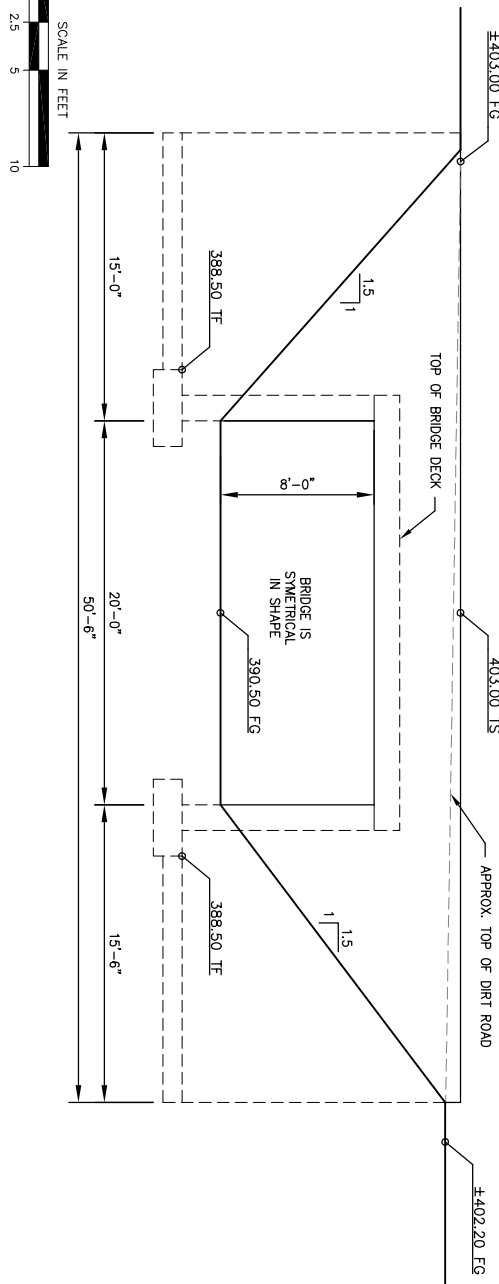
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SCALE: AS SHOWN

DATE: 9/22/11

JOB NO. 147708

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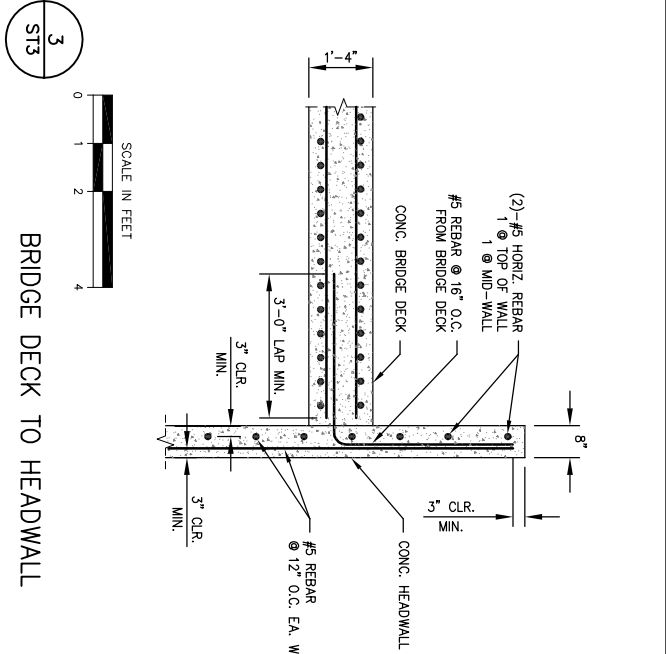
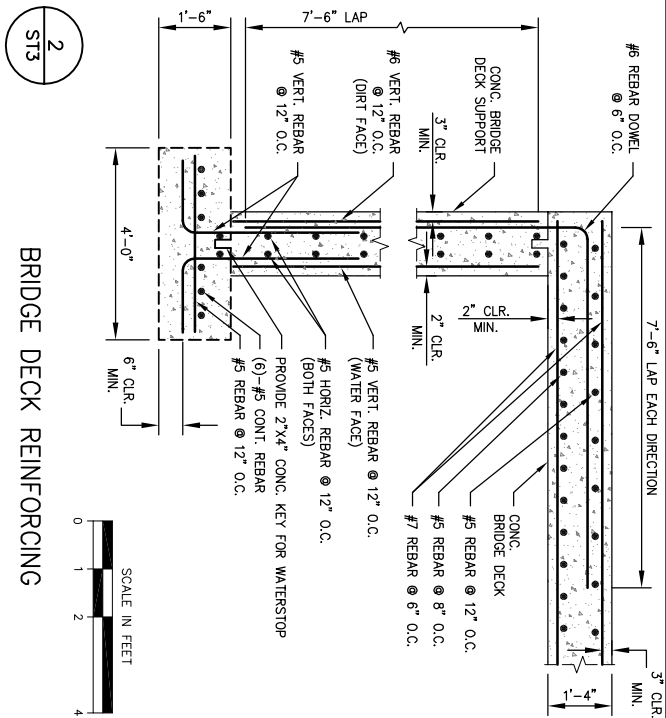
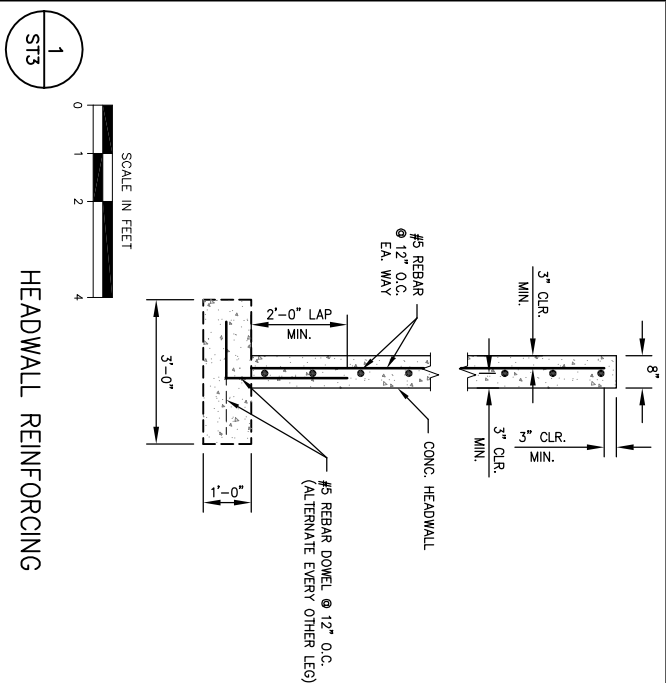
TULE RIVER INTERTIE PROJECT
LOWER TULE RIVER IRRIGATION DISTRICT
TULARE COUNTY, CA

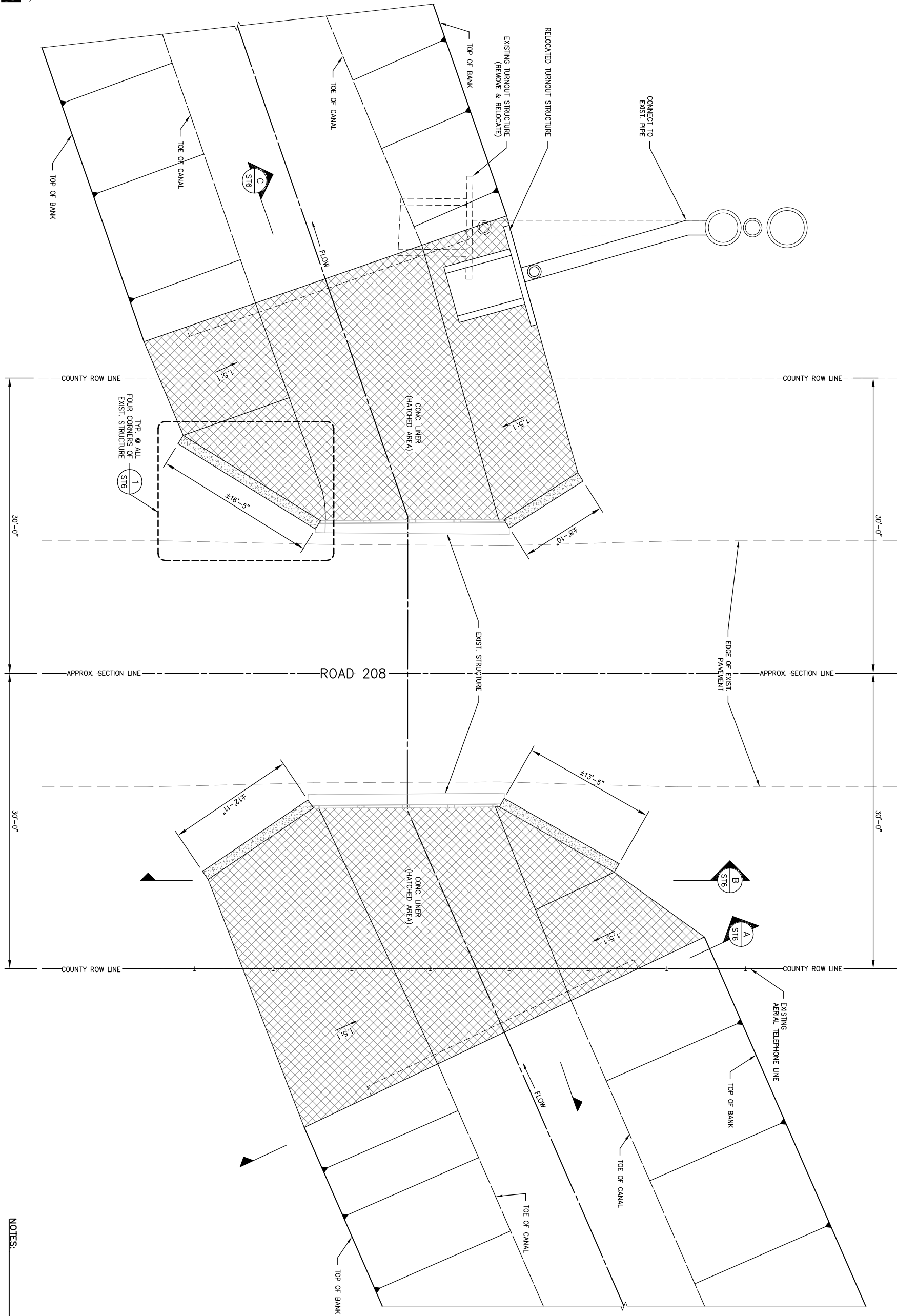
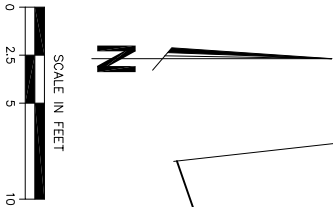
EST. 1968
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PRITCHARD** INC.
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DESIGN ENGINEER:	DENNIS MILLS
LICENSE NO:	CE 67,478
DRAFTED BY:	CHECKED

SCALE:	AS SHOWN
DATE:	9/22/08
JOB NO:	147708
DWG. NO:	

ST2 OF 63





PLAN VIEW

NOTES:

1. SBC REPORTS BURIED TELEPHONE LINE ALONG ROAD 208.
2. SCE REPORTS OVERHEAD POWER NEAR ROAD 280 CROSSING.

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www.ppeng.com

TULE RIVER INTERTIE PROJECT

LOWER TULE RIVER IRRIGATION DISTRICT
TULARE COUNTY, CA

ROAD 208 CROSSING 1



DATE SIGNED: _____

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